



Institut Francilien de Sciences Appliquées (IFSA)

FIELD Sciences, technologies, santé

Course suitable for

Initial Education

Continuing Education

Recognition of prior learning

Apprenticeship

• How to apply :

PARCOURSUP - eCANDIDAT- CAMPUS France -CANDIDATURES LIBRES

• Course venue :

Champs-sur-Marne

• Calendar :

De début mai à fin aout en stage - De début septembre à fin aout en stage en alternance

• Contacts :

- Coordinator of the degree program : PECHAUD Yoan (L2-L3)
- Academic coordinator : TASSEL Stephane

For further details :

Information, Career guidance and Professional integration Department
(SIO-IP) : sio@u-pem.fr / +33 1 60 95 76 76



BACHELOR ENGINEERING SCIENCES



Génie de l'environnement

BACHELOR L2-L3

ENTRY REQUIREMENTS

In L2: internal recruitment (L1 UPEM) and external recruitments (Campus France, IUT, other French universities). In L3: internal recruitment (L2 UPEM), external recruitment (Campus France, IUT, other French universities). The integration of graduates of DUT in the third year is satisfactory. BAC S- BAC STI2D- BACPRO -BTS - BTS ATI - BTS -DUT GTE -DUT Chemical Engineering Process Engineering- D - Bachelor in Science and Technology

ACQUIRED SKILLS

Analyze a technical problem from a specification, extract information from technical documents To develop a process, to develop a pre-dimensioning of an installation, to make process diagrams, to propose solutions to develop a process according to the environmental standards in force, to carry out tests of development on equipments. Identify and carry out the necessary measures to control the processes and interpret all the information of equipment control systems to adjust the necessary parameters. Identify business risks for people, facilities and the environment Work as a team, Calendar management of a project, work independently Expression techniques, oral communication Practice of English (groups of levels in license, practice of English oriented company). Internship in company (FI) or alternation (FA)

YOUR FUTURE CAREER

2% of graduates of the SPI degree directly earn the world of work. The direct outlets are: assistant research and test engineer on pilot plants (development of new processes), assistant engineer of maintenance and control of processes, in charge of the environment (treatment of the water, of the air, waste and contaminated soil ...), sales engineer, engineering assistant in a design office or in consulting firms (designer in a design office, assistance and advice ...), project manager. The other graduates continue in training in the area of SPI (masters, engineering schools), and then work in companies (large groups or SMEs), many of which correspond to the specialities of the three L3 courses. In particular, the GPE course allows further study in the UPEM Master Risque and Environment (RE).

BENEFITS OF THE PROGRAM

Arrangements for organising support for UPEM paths - a pedagogical secretariat per course and an administrative officer. - Student Workshops by the BAIP (Bureau d'aide à l'Insertion Professionnelle) for the writing of letters of motivation and CV, for assistance in the search for placements and preparation for interviews. - workshops with the library service for documentary retrieval on different media (paper, computer,...) and place (library, digital campus, internet, external library,...). These workshops are conducted as a complement to the communication EUs provided in L3. In L1: 2 professional speakers. In L2: 13 professional workers. In L3: 29 professional workers spread over the routes.

✧ APPRENDRE ✧ INVENTER ✧ COMPRENDRE

STUDY PROGRAM

Semester 3

Mathematics for SPI
Fluid mechanics
Solid mechanics
Thermodynamics
Communication
Business economics
Production management
English

Semester 4

Statistics for SPI
Technical drawing
Strength of materials
Computer science
Engineering and environmental challenges
Properties of materials and structures
Chemical reaction engineering 1
Mass and heat transport phenomenon
Thermodynamics applied to process engineering
Physics-chemistry of pollutants

SEMESTER 5

TU Science for engineers 1 **Mathematics tools 1 - System notions - system formalization - Fluid mechanics - Business organization -**
TU English
TU Chemical reaction engineering 2
TU Hydrology, Hydraulics
TU Unitary operations for the environment 1

SEMESTER 6

TU Science for engineers 2 **Mathematics tools 2 - Biological reaction engineering -**
TU Industrial Placement
TU Communication technique
TU Automation and control systems
TU Unitary operations for the environment 2
TU Real reactors applied to decontamination